

Coding sequence of the *cbh 1* gene (SEQ ID NO: 4). Lower case letters represent the signal sequence, upper case letters the catalytic domain, bolded italics the linker region, and upper case underlined the cellulose-binding domain.

atgtatcgggaagttggccgtcatctcggccttcttggccacagctcgtgctCAGTCGGCCTGCACTCTCCAAT
CGGA
GACTCACCCGCCTCTGACATGGCAGAAATGCTCGTCTGGTGGCACGTGCACT
CAACA
GACAGGCTCCGTGGTCATCGACGCCAACTGGCGCTGGACTCACGCTACGAAC
AGCAGCACGAACTGCTACGATGGCAACACTTGGAGCTCGACCCTATGTCCTG
ACAACGAGACCTGCGCGAAGAACTGCTGTCTGGACGGTGCCGCCTACGCGTC
CACGTACGGAGTTACCACGAGCGGTAACAGCCTCTCCATTGGCTTTGTCACCC
AGTCTGCGCAGAAGAACGTTGGCGCTCGCCTTTACCTTATGGCGAGCGACAC
GACCTACCAGGAATTCACCCTGCTTGGCAACGAGTTCTCTTTTCGATGTTGATG
TTTCGCAGCTGCCGTGCGGCTTGAACGGAGCTCTCTACTTCGTGTCCATGGAC
GCGGATGGTGGCGTGAGCAAGTATCCCAACACACCGCTGGCGCCAAGTACG
GCACGGGGTACTGTGACAGCCAGTGTCCCCGCGATCTGAAGTTCATCAATGG
CCAGGCCAACGTTGAGGGCTGGGAGCCGTCATCCAACAACGCGAACACGGG
CATTGGAGGACACGGAAGCTGCTGCTCTGAGATGGATATCTGGGAGGCCAAC
TCCATCTCCGAGGCTCTTACCCCCCACCCTTGCACGACTGTGCGGCCAGGAGAT
CTGCGAGGGTGATGGGTGCGGCGGAACTTACTCCGATAACAGATATGGCGGC
ACTTGCGATCCCGATGGCTGCGACTGGAACCCATACCGCCTGGGCAACACCA
GCTTCTACGGCCCTGGCTCAAGCTTTACCCTCGATACCACCAAGAAATTGACC
GTTGTCAACCAGTTCGAGACGTCGGGTGCCATCAACCGATACTATGTCCAGA
ATGGCGTCACTTTCCAGCAGCCCAACGCCGAGCTTGGTAGTTACTCTGGCAA
CGAGCTCAACGATGATTACTGCACAGCTGAGGAGGCAGAATTCGGCGGATCC
TCTTTCTCAGACAAGGGCGGCCTGACTCAGTTCAAGAAGGCTACCTCTGGCG
GCATGGTTCTGGTCATGAGTCTGTGGGATGATTACTACGCCAACATGCTGTGG
CTGGACTCCACCTACCCGACAAACGAGACCTCCTCCACACCCGGTGCCGTGC
GCGGAAGCTGCTCCACCAGCTCCGGTGTCCCTGCTCAGGTGGAATCTCAGTCT
CCCAACGCCAAGGTCACCTTCTCCAACATCAAGTTCGGACCCATTGGCAGCA
CCGGCAACCCTAGCGGCGGCAACCCTCCCGGCGGAAACCCGCCTGGCACCCAC
CACCACCCGCCGCCAGCCACTACCACTGGAAGCTCTCCCGGACCTACCCAGT
CTCACTACGGCCAGTGCGGCGGTATTGGCTACAGCGGCCCCACGGTCTGCGC
CAGCGGCACAACCTGCCAGGTCCTGAACCCTTACTACTCTCAGTGCCTGTAAA
GCTCC

Figure 1

SDS-PAGE western blot using anti-CBH I showing the reduction in molecular weight of rCBH I expression clones as a function of the introduction of N>A modifications.

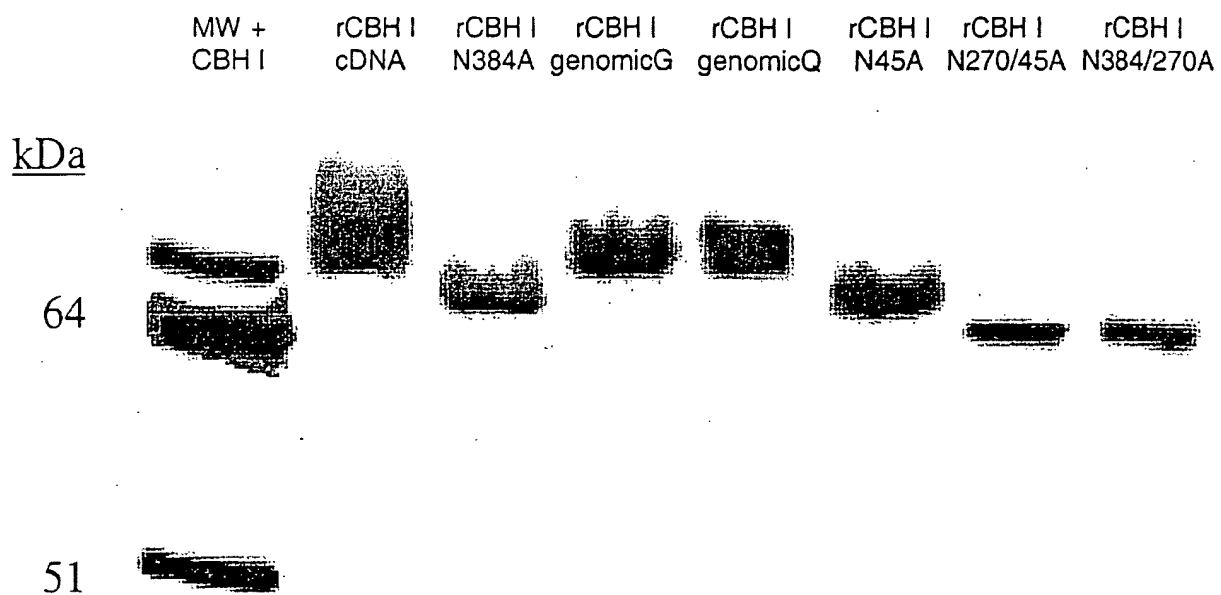


Figure 2

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Plasmid map of fungal expression vector pPFE2/CBHI

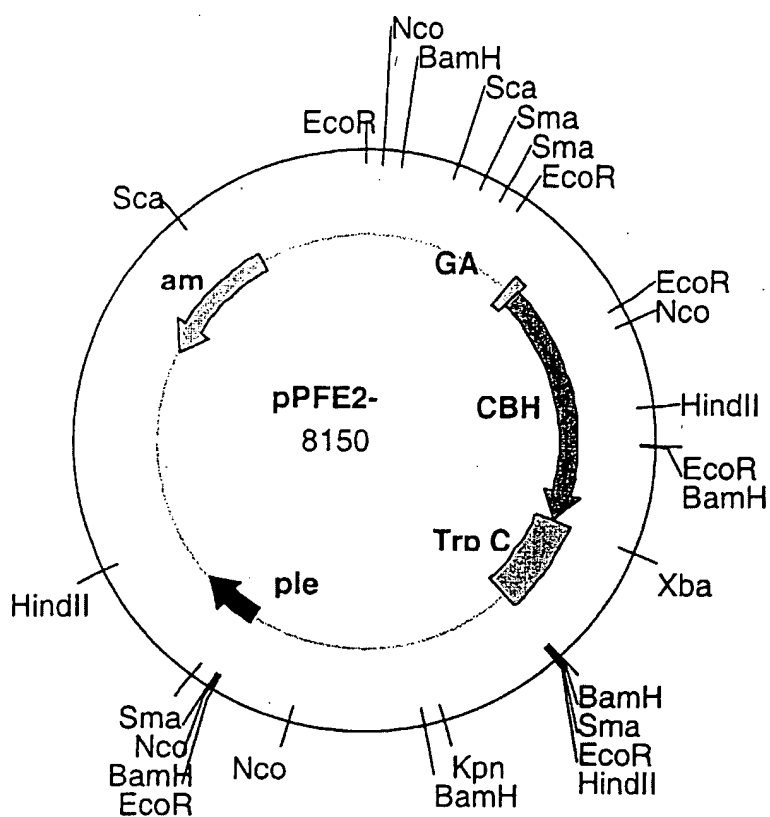


Figure 3

Nucleotide sequence SEQ ID NO: 1, 5'-CCTCCCGGCGGAAACCCGCCTGGCACCAACCACCCGCCGCCCA-3', coding for the linker region, PPGGNPPGTTTTRRP (SEQ ID NO: 2), of the CBH I protein, showing additional proline residues that effect conformation of the linker region in the protein structure.

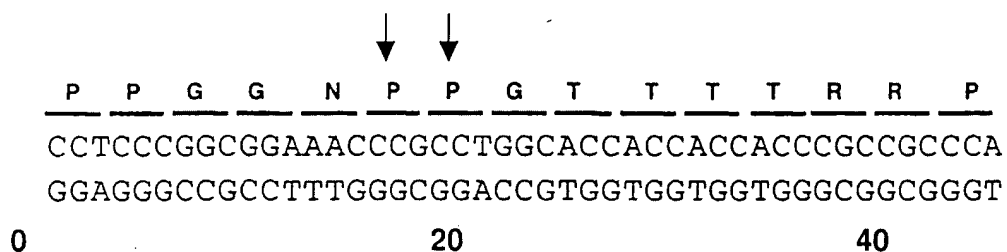


Figure 4